

sintered silicon carbide ceramic roller kiln furniture

■ Introduction:

Sintered silicon carbide ceramic roller kiln furniture is a kind of ceramic material with high strength, high heat resistance and high corrosion resistance. Sintered silicon carbide ceramic roller kiln furniture is made of high purity silicon carbide powder by pressing, molding and sintering. The material has good high temperature resistance, corrosion resistance and wear resistance. Sintered silicon carbide roller for kiln is suitable for baking tray and roller of roller table furnace, tube furnace, lifting furnace and other equipment in high temperature sintering, heat treatment, drying and other industrial production processes.

■ Technical data sheet:

Item	Unit	Data
Density	G/cm ³	>3.14
Open porosity	%	<0.1
Bending strength	MPa	400-500
Viker Hardness	Kg/mm ²	2800
Rockwell Hardness	HRA	92
Acid-proof (98% H ₂ SO ₄ at 100C)	Mg/cm ² .Y	0.98
Grain Size	nm	<10
Fracture toughness	Mpa	4-5
Silicon Carbide Content	%	>99

■ Advantages:

1. Sintered silicon carbide roller for kiln has the advantages of high strength, high hardness, high toughness, can withstand high pressure, high temperature, high load role.
2. Silicon carbide ceramic roller has good high temperature resistance, can withstand high temperature thermal stress and thermal shock, not easy to deformation and fracture.
3. SiC kiln furniture has long service life, not easy to damage and wear, can reduce the number of replacement and maintenance costs

